

Contributions to the Bryological Flora of Eastern Asia (III)*

By

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堀川芳雄 : 東亞産苔蘚植物報告 (其三)

29) **Riccia fluitans** LINNÉ Sp. pl. (1753) p. 1139.

Syn. *Riccia canaliculata* HOFFMANN Deutseh. Fl. II. (1795) p. 96.

Ricciella fluitans BRAUN in Allg. Bot. Zeit. II. (1821) p. 757.

Riccia eudichotoma BISCHOFF in Leop. Carol. Acad. XIX. 2. (1835)
p. 1068.

Nom. Jap. Uki-goke, Kazuno-goke, Kazuno-ukigoke.

Hab. Rooting on the muddy substrata.

Hokkaidô : Ônuma, prov. Oshima (Y. HORIKAWA, Aug. 13, 1930).

Distr. Europe, Siberia, Amur, China, Korea, Japan Proper, Liukius, Formosa, Himalaya, Africa, New Zealand, Samoa, South & North America.

This species is a new addition to the flora of Hokkaidô.

30) **Conocephalus supradecompositus** (LINDBERG) STEPHANI in Bull.
Herb. Boiss. V. (1897). p. 82.

Syn. *Sandea supradecompositus* LINDBERG in Acta Soc. F. et Fl. Fenn. II.
(1884).

Nom. Jap. Hime-jagoke.

Hab. On moist shady soil.

Korea : Shôkori, prov. Heinan (K. SEN-U, Aug. 17, 1931); Genzan, prov.
Kannan (Y. HORIKAWA, Aug. 4, 1935); Mt. Kongôzan, prov. Kôgen (Y. HORIKAWA, Aug. 5, 1935).

Dist. China(Shensi), Formosa, Liukius, Japan Proper, Quelpært, Hokkaidô.

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The species is new to the flora of Korea.

31) **Marchantia polymorpha** LINNÉ Sp. pl. (1753) p. 1137.

Nom. Jap. Zenigoke, Ma-zenigoke.

Hab. On moist soil and wall.

Korea: Mt. Hakutozan, prov. Kanhoku (Y. HORIKAWA, July 28, 1935); Genzan, prov. Kannan (Y. HORIKAWA, Aug. 4, 1935); Keijô, prov. Keiki (Y. HORIKAWA, Aug. 7, 1935).

Distr. Europe, Caucasus, Siberia, Alaska, North America, West Indies, Manchuria, Kuriles, Saghalien, Japan Proper, Yakushima, Formosa, South China, Himalaya, Java.

This species is new to the flora of Korea.

32) **Metzgeria pubescens** (SCHRANK) RADDI in Att. Soc. Sci. Mod. XVIII. (1818) p. 46.

Syn. *Jungermannia pubescens* SCHRANK Prim. Fl. Salisb. (1792) p. 231.

Echinomitrium pubescens HÜBENER Hep. germ. (1834) p. 48.

Nom. Jap. Ke-futamatagoke.

Hab. On shaded moist rocks.

Korea: Mt. Kongôzan, prov. Kôgen (Y. HORIKAWA, Aug. 5, 1935).

Distr. Europe, Caucasus, Himalaya, China, Quelpært, Japan Proper, Hokkaidô, Saghalien, North America.

The present species is a new addition to the flora of Korea.

33) **Makinoa crispata** (STEPHANI) MIYAKE in Bot. Magaz. Tokyo, XIII. (1899) p. 21 et in Hedwigia, XXXVIII. (1899) p. 201.

Syn. *Pellia crispata* STEPHANI in Bull. Herb. Boiss. V. (1897) p. 103.

Nom. Jap. Makinogoke.

Hab. On wet soil.

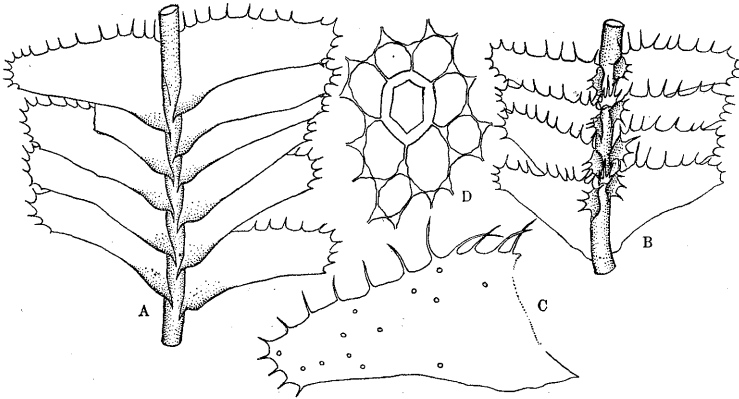
Korea: Mt. Kongôzan, prov. Kôgen (Y. HORIKAWA, Aug. 5, 1935).

Distr. Japan Proper, Quelpært, Yakushima, Liukius, Formosa, South China.

This species is new to the flora of Korea.

34) **Plagiochila punctata** HORIKAWA, sp. nov.

Dioica. Planta mediocris, rigida, pallide-virens, ad 3 cm longa, cum foliis 6 mm lata, corticola. Caulis ca. 0.33 mm in diametro, validus et fuscus, vage et longe ramosus. Folia caulina imbricata, plano-disticha, subrecte patula, haud decurrentia, in plano oblongo-trigona, e basi ampliore sensim angustata, apice triplo angustiora quam basi, ca. 3 mm longa et basi 1.8 mm, apice 0.6 mm lata, asymmetrica, margine antico leviter incurvo, nudo, postico substricto, usque ad basin fere valideque et longeque spinoso, spinis ad 10-15, angustis, longe attenuatis (basalibus longioribus), apice truncato, 4-6 spinosa, basi postica auriculatim ampliata cucullata, auriculo longe ciliato. Cellulae



Text-fig. 8. *Plagiochila punctata* HORIKAWA. A. Part of stem, antical view, $\times 9$. B. Ditto, postical view, $\times 9$. C. Leaf, dissected from stem, showing scattered ocelli, $\times 18$. D. Cells from middle of leaf, including an ocellus, $\times 250$.

A. 莖ノ一部、背面觀 $\times 9$ 。B. 同上、腹面觀 $\times 9$ 。C. 莖葉、散在スル異形細胞ヲ示ス $\times 18$ 。D. 葉ノ中央部位ノ細胞、1 個ノ異形細胞ヲ含ム $\times 250$ 。

apicales ca. $30\ \mu$, medio $26 \times 37\ \mu$ et basales $33 \times 52\ \mu$, trigonis mediocris; ocelli pauci, irregulariter distributi. Amphigastria parva, profunde bi-vel plurifida, laciniis acuminatis porrectis.

Hab. On the bark of trees.

Liukius: Mt. Hateruma-mori, isl. Iriomotejima (Y. HORIKAWA, Apr. 5, 1934).

The present species is well characterized by the scattered larger and thick-

walled cells (ocelli) of the leaves, which were not recognized in the representatives of *Plagiochila*, so far as the present knowledge goes. In appearance, our species is nearest to *Plagiochila yayeyamensis* HORIKAWA, a species of the same island, but differs from the latter by the truncate and oblong-triangular leaves, the existence of underleaves and scattered ocelli.

35) **Madotheca ulophylla** STEPHANI in Bull. Herb. Boiss. V. (1897) p. 97.

Nom. Jap. Nori-urokogoke, Chizimi-kayagoke.

Hab. On the bark of trees.

Manchuria: Wei-Hu-Ling, prov. Kirin (Y. HORIKAWA, July 23, 1935).

Distr. Japan Proper, Korea.

This species is a new addition to the flora of Manchuria.

36) **Mnium flagellare** SULLIVANT et LESQUIREUX in Proc. Amer. Acad. Arts & Sci. (1859) p. 277.

Nom. Jap. Yezo-chôchingoke.

Hab. On the decayed logs.

Manchuria: Wei-Hu-Ling, prov. Kirin (Y. HORIKAWA, July 23, 1935).

Distr. Yakushima, Japan Proper, Kuriles, Saghalien, Amur, Alaska.

The species is a new addition to the flora of Manchuria.

37) **Mnium undulatum** (LINNÉ) WEIS Pl. crypt. fl. Gött. (1870) p. 158.

Syn. *Mnium serpyllifolium* δ *undulatum* LINNÉ Sp. pl. 1 ed. II. (1753) p. 1113.

Bryum serpyllifolium γ *undulatum* HUDS. Fl. angl. 1 ed. (1762) p. 417.

Bryum ligulatum SCHREB. Spic. Fl. lips. (1771) p. 84.

Mnium ligulatum WILLD. Prodr. fl. berol. (1787) p. 334.

Hypnum undulatum SCHRANK Bayer. Fl. II. (1789) p. 474.

Polytrichum undulatum SCHRANK Prim. fl. salisb. (1792) p. 223.

Astrophyllum undulatum LINDBERG M. scand. (1879) p. 13.

Nom. Jap. Namigata-chôchingoke.

Hab. On humus in dense forest.

Manchuria: Wei-Hu-Ling, prov. Kirin (Y. HORIKAWA, July 23, 1935).

Distr. Europe, Algeria, Tunis, Morocco, Azores, Canary, Madeira, Syria,

Caucasus, Sikkim, Japan Proper.

This is a new addition to the flora of Manchuria.

38) **Climacium americanum** BRIDEL Bryol. univ. II. (1827) p. 273.

Syn. *Neckera dendroides* β *americana* C. MÜLLER Syn. II. (1851) p. 122.

Nom. Jap. America-mannengusa.

Hab. On the layer of humus.

Korea : Mt. Kongôzan, prov. Kôgen (Y. HORIKAWA, July 29, 1935).

Distr. North America, Saghalien, Hokkaidô, Japan Proper (Honshiu).

The species is new to the flora of Korea.

39) **Meteoriopsis ancistrodes** (RENAULD et CARDOT) BROTHERUS in ENGLER et PRANTL Natürl. Pflanzenfam. I. 3. (1906) p. 826.

Syn. *Meteorium ancistrodes* RENAULD et CARDOT in Bull. Soc. bot. Belg. XXXIV, 2. (1895) p. 72.

Meteorium himalayense PARIS Index Bryol. (1896) p. 797.

Nom. Jap. Sagarigoke-modoki.

Hab. On the foot of trees.

Kiushiu : Kônose, prov. Higo (K. MAYEBARA, no. 90, Oct. 14, 1928).

Distr. Himalaya, Formosa.

This is a new addition to the flora of Japan Proper.

40) **Ptilium crista-castrense** (LINNÉ) DE NOTARIS Epil. (1869) p. 101.

Syn. *Hypnum crista-castrensis* LINNÉ Sp. pl. (1753) p. 1125.

Stereodon crista-castrensis MITTEN in Journ. Linn. Soc. Bot. VIII. (1865) p. 41.

Nom. Jap. Dachôgoke.

Hab. On the layer of humus in subalpine region.

Korea : Mt. Hakutôzan, prov. Kanhoku (Y. HORIKAWA, July 29, 1935).

Distr. Europe, Caucasus, Himalaya, Siberia, Yunnan, Amur, Quelpært, Japan Proper, Formosa, Saghalien, North America.

The species is new to the flora of Korea.

41) **Oligotrichum aligerum** MITTEN in Journ. Linn. Soc. VIII. (1864) p. 48.

Nom. Jap. Hagurumagoke.

Hab. On the sunny soil.

Korea: Mt. Kongôzan, prov. Kôgen (Y. HORIKAWA, Aug. 5, 1935).

Distr. North America, Japan Proper (Honshiu).

This a new addition to the flora of Korea.

42) **Pogonatum asperrium** BESCHERELLE in Ann. Sci. Nat. 7 Ser. Bot. XVII. (1893) p. 355.

Nom. Jap. Hirohano-kosugigoke.

Hab. On the sandy soil.

Korea: Mt. Kongôzan, prov. Kôgen (Y. HORIKAWA, Aug. 5, 1935).

Distr. Japan Proper, Quelpart.

This species is new to the flora of Korea.

29) うきごけ *Riccia fluitans* L. ガ北海道デハ初メテ見出サレタ。即チ大沼公園ノ泥土上ニテ筆者自ラ採集シタ。

30) ひめじやごけ *Conocephalus supradecompositus* (LINDB.) STEPH. ガ朝鮮ニ産スルコトモ今度ガ初メテノ報告デアツテ鮮于起君ハ勝湖里、筆者ハ元山及ビ金剛山中ノ溫井里ト神溪寺間ニテ夫々採集スル。

31) ぜにごけ *Marchantia polymorpha* L. モ朝鮮ニテハ最初ノ發見デアル。即チ筆者自身ガ白頭山・元山・京城ノ各地デ立派ナ標本ヲ得ルコトガ出來タ。

32) 同節體ノ表裏兩面共密毛ヲ以テ蔽ハレ 從ツテ同屬ノ他種カラハ直グ區別ノ出來ルけふたまたごけ *Metzgeria pubescens* (SCHR.) RADDI モ亦朝鮮ニ産スルコトヲ確メ得タ。即チ金剛山中ノ最高峰タル昆盧峰9合目ニ出來タ久米山莊近クデノ筆者ノ採集ニカカル。

33) 有名ナまきのごけ *Makinoa crispata* (STEPH.) MIYAKE ノ分布ハ最近漸クソノ區域ガ擴ゲラレテ來テ濟州島ニモ生ズルコトヲ先ニ報知シテオイトガ今回遂ニ朝鮮内部ニ見ツカツタ。即チ筆者自ラ金剛山中九龍淵ニ得タ。

34) 筆者ガ西表島ノ波照間森ニテ得タモノデー見同島産ノ *Plagioclila yeyamensis* HORIKAWA ニ似テキルガソレトハ葉ガ長橢圓狀三角形デソノ先端ハ楔形ニ近ク且ツ腹面葉ガ存在スルノデ容易ニ區別スルコトガ出來ルガ、更ニ

本種ノ驚クベキ特徴ハ葉ニ散在スル大形厚膜ノ異形細胞即チ ocellus ノ存在スルコトデ今日迄知ラレタ處ニヨレバ ocellus ハやすでこけ (*Frullania*) 屬トくさりこけ科 (*Lejeuneaceae*) トノ或ルモノニ限ツテ存在スルコトガ知ラレテキルダケデコノはねこけ (*Plagiochila*) 屬ノモノハ勿論ノコト數多イソノ他ノ苔類ニモ全ク見ツカツテハキナイ。コノ特徴ヲ十分ニ含マセテ學名ヲ ***Plagiochila punctata*** HORIKAWA トスル。

35) 葉ガ著シク波形ニ縮ムコトデ他種カラハ容易ニ區別シ得ルのりうろここけ *Madotheca ulophylla* STEPH. ガ滿洲ニモ分布スルコトガ今度初メテ明白トナツタ。即チ本年7月23日筆者自ラ京圖線中有名ナ密林地帯ニシテ匪賊襲來ノ多キ威虎嶺附近ノ密林ニテ守備隊危險ノ警備下ニ採集スルコトガ出來タ。

46) 多數ノ鞭苗ヲ東生スルコトデ名アルえぞちやうちんこけ *Mnium flagellare* SULL. et LESQ. モ威虎嶺附近ノ密林下ノ朽木上ニ得タ。之レ本種ノ滿洲ニ産スルコトノ最初ノ報告デアル。

37) 植物體モ大キク葉ガ著シク波形ノ皺ヲモツノデなみがたちやうちんこけ *Mnium undulatum* (L.) WEIS ト呼バレルコノ蘚モ滿洲デハ初メテノ發見デ同ジク威虎嶺附近ノ密林下ニ多産スルコトガ解ツタ。

38) かうやのまんねんぐさニ最モヨク似テ非ナルあめりかまんねんぐさ *Climacium americanum* BRID. ノ分布ガ今度朝鮮マデ擴ゲラレタ。金剛山ニテ筆者自ラ採集スルトコロ。

39) 一見さがりこけ (*Barbella*) 屬ノモノニ似テ非ナルさがりこけもどき *Meeteoriopsis ancistrodes* (REN. et CARD.) BROTH. ハ初メヒマラヤニ知ラレ、後臺灣ニモ産スルコトガ知ラレテ來タガ今度一足飛ビニ日本本部ニモ亦分布スルコトガ解ツタ。即チ前原勘次郎氏ガ肥後神ノ瀬ニテ採集シタ。

40) だてうこけ *Ptilium crista-castrense* (L.) DE NOT. トヨク名ヅケラレタ亞高山乃至亞寒帶蘚ヲ筆者ハ白頭山ノ亞高山帯ニ得タガ之ガ朝鮮ニ産スルコトノ最初ノ報告デアリ而モコレハ長イ蒴柄ヲ具ヘタ多數ノ造胞體ヲツケテキル。

41) 葉ノ表裏兩面ニ數列ノ著ルシイラメラヲ具ヘテキルノデはぐるまこけ *Oligotrichum aligerum* MITT. ト呼バレルコノ蘚ハ北米ノロツキー山脈ヲ本據トシテ産シ次イデ第2ノ產地トシテ本州ノ高山ニモ見出サレタガ更ニ今度筆者ニヨツテ朝鮮金剛山ノ頂上近クニ見ツケタ。

42) 葉ガ幅廣ク蒴胞ノ表面ガ疣狀ヲナスコトデ特徴ヲモツひろはのとすぎこけ *Pogonatum asperrium* BESCH. ノ分布モ亦今回朝鮮マデ擴ゲケレタ。即チ筆者自ラ金剛山中九龍淵ノ少シ上部ニテ採集シタ。 (續ク)